

# Water Portfolios

San Joaquin River Hydrologic Region

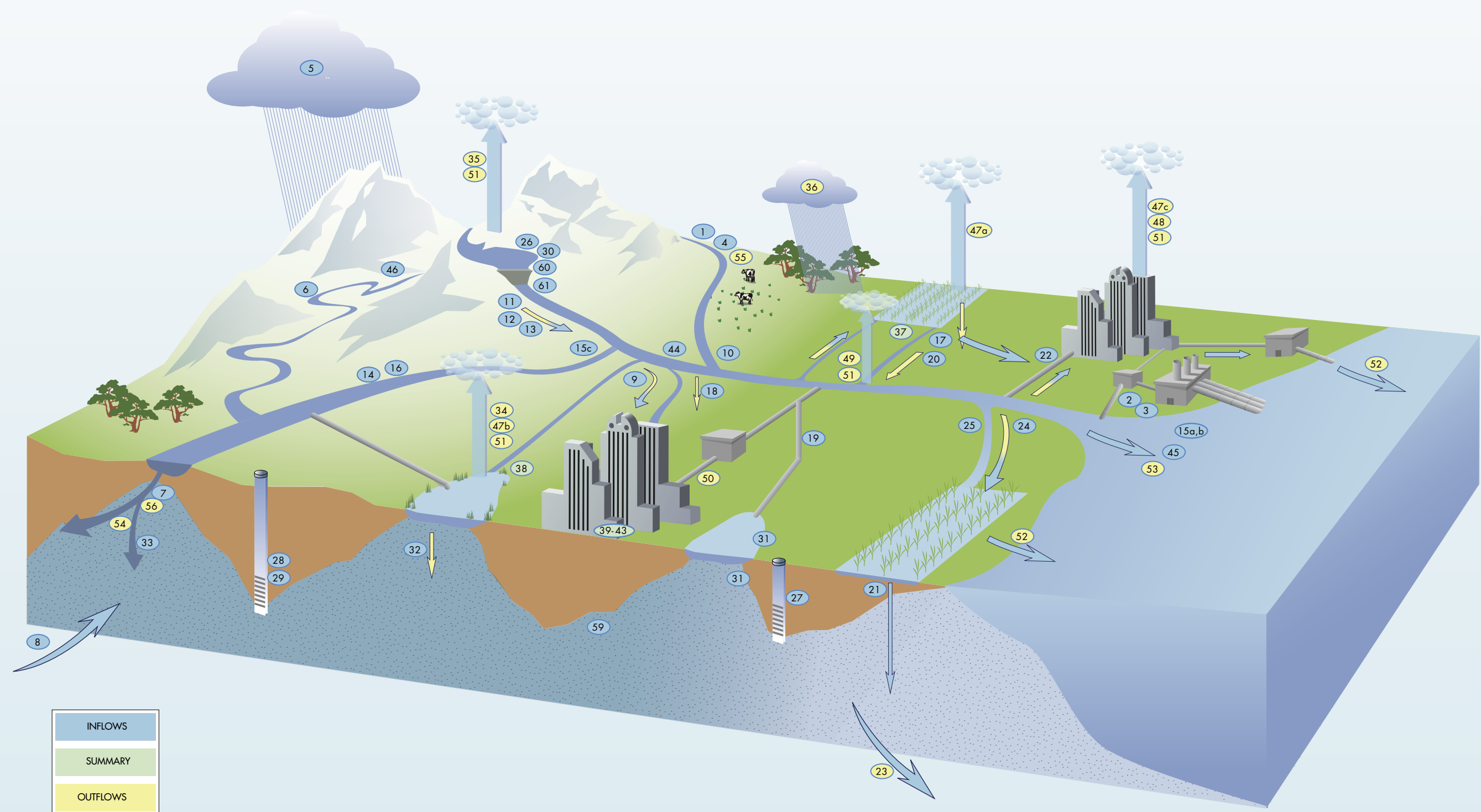
ID Number:	Flow Diagram Component (see legend)	San Joaquin River 1998	San Joaquin River 2000	San Joaquin River 2001
1	Colorado River Deliveries	-	-	-
2	Total Desalination	-	-	-
3	Water from Refineries	-	-	-
4a	Inflow From Oregon	-	-	-
b	Inflow From Mexico	-	-	-
5	Precipitation	35,534.7	23,208.5	16,120.2
6a	Runoff - Natural	-	-	-
b	Runoff - Incidental	-	-	-
7	Total Groundwater Natural Recharge	-	-	-
8	Groundwater Subsurface Inflow	-	-	-
9	Local Deliveries	3,229.8	3,540.7	3,548.5
10	Local Imports	-	-	-
11a	Central Valley Project :: Base Deliveries	12.8	12.8	12.8
b	Central Valley Project :: Project Deliveries	1,354.2	1,790.7	1,653.7
12	Other Federal Deliveries	64.3	65.8	97.6
13	State Water Project Deliveries	4.3	4.6	3.5
14a	Water Transfers - Regional	-	-	-
b	Water Transfers - Imported	-	-	-
15a	Releases for Delta Outflow - CVP	-	-	-
b	Releases for Delta Outflow - SWP	-	-	-
c	Instream Flow Applied Water	1,528.9	2,098.5	1,424.4
16	Environmental Water Account Releases	-	-	-
17a	Conveyance Return Flows to Developed Supply - Urban	-	-	-
b	Conveyance Return Flows to Developed Supply - Ag	-	-	-
c	Conveyance Return Flows to Developed Supply - Managed Wetlands	-	-	-
18a	Conveyance Seepage - Urban	-	-	-
b	Conveyance Seepage - Ag	-	-	0.2
c	Conveyance Seepage - Managed Wetlands	-	-	-
19a	Recycled Water - Agriculture	1.2	1.2	1.2
b	Recycled Water - Urban	0.7	0.7	0.7
c	Recycled Water - Groundwater	-	-	-
20a	Return Flow to Developed Supply - Ag	1,179.4	949.1	968.4
b	Return Flow to Developed Supply - Wetlands	132.6	126.7	134.2
c	Return Flow to Developed Supply - Urban	-	-	-
21a	Deep Percolation of Applied Water - Ag	157.7	844.2	910.1
b	Deep Percolation of Applied Water - Wetlands	174.3	166.5	142.3
c	Deep Percolation of Applied Water - Urban	207.9	226.3	229.5
22a	Reuse of Return Flows within Region - Ag	-	-	-
b	Reuse of Return Flows within Region - Wetlands, Instream, W&S	5,190.0	4,192.3	2,515.4
24a	Return Flow for Delta Outflow - Ag	-	-	-
b	Return Flow for Delta Outflow - Wetlands, Instream, W&S	1.6	1.6	1.5
c	Return Flow for Delta Outflow - Urban Wastewater	-	-	-
25	Direct Diversions	-	-	-
26	Surface Water in Storage - Beg of Yr	6,943.0	7,378.6	7,446.0
27	Groundwater Extractions - Banked	-	-	-
28	Groundwater Extractions - Adjudicated	-	-	-
29	Groundwater Extractions - Unadjudicated	1,765.6	2,646.3	2,968.6
23	Groundwater Subsurface Outflow	N/A	N/A	N/A
30	Surface Water Storage - End of Yr	9,190.7	7,446.0	6,010.8
31	Groundwater Recharge-Contract Banking	-	-	-
32	Groundwater Recharge-Adjudicated Basins	-	-	-
33	Groundwater Recharge-Unadjudicated Basins	-	-	-
34a	Evaporation and Evapotranspiration from Native Vegetation	-	-	-
b	Evaporation and Evapotranspiration from Unirrigated Ag	-	-	-
35a	Evaporation from Lakes	77.3	89.7	82
b	Evaporation from Reservoirs	419.9	477.1	449.3
36	Ag Effective Precipitation on Irrigated Lands	1514	870.3	820
37	Agricultural Water Use	5,079.0	6,556.3	6,793.9
38	Managed Wetlands Water Use	414.5	444.8	414.7
39a	Urban Residential Use - Single Family - Interior	93.5	101.4	106.1
b	Urban Residential Use - Single Family - Exterior	172.3	186.0	197.2
c	Urban Residential Use - Multi-family - Interior	82.7	90.1	93.6
d	Urban Residential Use - Multi-family - Exterior	41.7	45.3	46.5
40	Urban Commercial Use	34.5	37.6	39.6
41	Urban Industrial Use	86.3	89.4	90.1
42	Urban Large Landscape	30.2	32.9	35.5
43	Urban Energy Production	-	-	-
44	Instream Flow	-	-	-
45	Required Delta Outflow	-	-	-
46	Wild and Scenic Rivers	-	-	-
47a	Evapotranspiration of Applied Water - Ag	3408.1	4406	4627.8
b	Evapotranspiration of Applied Water - Managed Wetlands	105.9	149.7	136.6
c	Evapotranspiration of Applied Water - Urban	191	206.6	218.4
48	Evaporation and Evapotranspiration from Urban Wastewater	-	-	-
49	Return Flows Evaporation and Evapotranspiration - Ag	74.4	11.6	14.3
50	Urban Waste Water Produced	117.8	123.4	131.8
51a	Conveyance Evaporation and Evapotranspiration - Urban	12.6	12	13.6
b	Conveyance Evaporation and Evapotranspiration - Ag	207.7	248.8	245.3
c	Conveyance Evaporation and Evapotranspiration - Managed Wetlands	-	-	-
d	Conveyance Outflow to Mexico	-	-	-
52a	Return Flows to Salt Sink - Ag	26.7	40.4	50.3
b	Return Flows to Salt Sink - Urban	148.9	155.5	167.7
c	Return Flows to Salt Sink - Wetlands	-	-	-
53	Remaining Natural Runoff - Flows to Salt Sink	0.2	-	-
54a	Outflow to Nevada	-	-	-
b	Outflow to Oregon	-	-	-
c	Outflow to Mexico	-	-	-
55	Regional Imports	6,034.4	6,173.5	4,571.8
56	Regional Exports	4435.8	6398.2	4496
59	Groundwater Net Change in Storage	-443.9	-96.1	-1,259.9
60	Surface Water Net Change in Storage	2,247.7	67.4	-1,435.2
61	Surface Water Total Available Storage	11,372.3	11,477.1	11,477.1

Inflows

Outflows

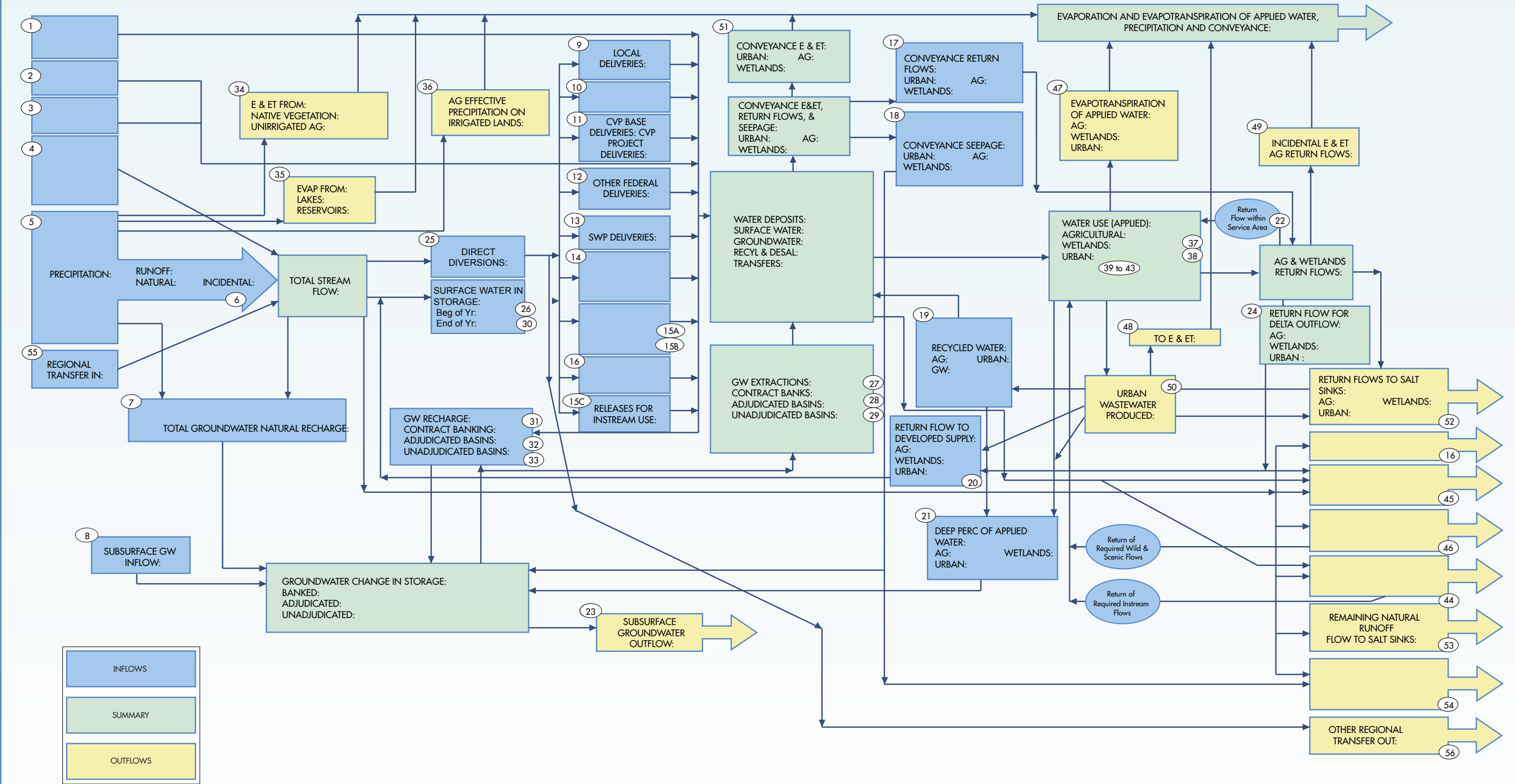
Green number signifies included in summary boxes

Figure 7-4 San Joaquin River region - illustrated water flow diagram



In this illustration of Table 7-3, key components of the flow diagram are shown as characteristic elements of the hydrologic cycle. Circled numbers correspond to the identification number of flow diagram components in the table; its color indicates whether the component is water input, output, or summary.

Figure 7-5 San Joaquin River region - schematic flow diagram



In schematic of Table 7-3, key components of the flow diagram are shown as boxes and connectors in a flow chart. Circled numbers correspond to the identification number of flow diagram components in the table; box color indicates whether the component is water input, output, or summary. Blank boxes are flow diagram components not relevant to the region